



# TK-2312/3312

# VHF/UHF FM Portable Radios



The TK-2312/3312 is compact yet packed with features for intuitive operation, impressive performance, and all-weather reliability. Nine programmable function keys allow for customized convenience, and Kenwood's renowned audio clarity means the message gets through loud and clear.

#### **UHF WIDE BAND COVERAGE**

Offering extensive frequency coverage – 70MHz for UHF – the TK-2312/3312 is ideal for a wide range of applications.

#### 128 CHANNELS / 128 ZONES

The 128-channel, 128-zone capacity is ample for any current or future requirement in any radio system.

## **EASY OPERATION**

Seven frontal PF keys provide easy one-touch operation. And the 8-character, 13-segment backlit LCD with icons — including a new RSSI display — makes channel information or FleetSync® messaging easy to read, day or night.

# 4-COLOR LED INDICATOR

In addition to the red/orange/green LED indicators, a blue LED has been added for quick visual confirmation.

#### PROGRAMMABLE VOICE SCRAMBLER\*

The built-in programmable voice scrambler provides protection against casual eavesdropping.

\*This function cannot be used in certain countries. Please contact your Kenwood dealer or further information.

#### **SIGNALING**

■ QT / DQT / DTMF ■ FleetSync® PTT ID, SelCall ■ 2-tone (encode/decode) ■ Built-in MDC-1200 signaling FleetSync® and MDC-1200 signaling can be independently selected for each zone. Switching between them is as simple as changing zones.

#### **EMERGENCY FUNCTION**

For hazardous/hostile environments, the AUX key can be programmed for Emergency use to transmit an alert to a predetermined person or group using DTMF, FleetSync® or MDC-1200 signaling.

#### **ROBUST & WATER-RESISTANT**

The TK-2312/3312 has passed the demanding IP54/55 tests, even with the optional speaker microphone KMC-45 attached (locking bracket required). It also meets or exceeds 11 MIL-STD 810 C/D/E/F environmental standards, including "blowing rain".

#### **CLEAR & CRISP, ENHANCED AUDIO**

As an experienced audio specialist, Kenwood has decades of expertise that is reflected in every Kenwood radio – from component selection and construction to optimization, evaluation and analysis. The resulting audio performance, specially engineered for transceivers, is undeniably clearer and crisper. Just listen to the difference.

### **5W OUTPUT POWER**

Output is 5W for both VHF and UHF.

#### **GPS CONNECTIVITY**

The KMC-48GPS Speaker Microphone provides an option for GPS tracking.

#### 9 PF KEYS

9 programmable functions keys (7 in the front and 2 on the side) allow operation to be customized to fit specific requirements. A PF key can be programmed as an Emergency function to send a help signal to a predetermined person or group, using DTMF, FleetSync®, 5-tone or MDC-1200 signaling.

#### **OTHER FEATURES**

- Radio stun Priority scan Speaker mute
- Channel / Zone delete & add Key lock
- Compander / VOX / Scrambler setting per channel
- VOX T.O.T Busy channel lockout
- Operator-selectable tone Password protection
- Wireless clone
   Self-programming mode
- Voice announcement



# **Options**



**Specifications** 

All accessories and options may not be available in all markets.

Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

	TK-2312	TK-3312		
GENERAL				
Frequency Range				
Type 1	136 - 174 MHz	450 - 520 MHz		
Type 2	_	400 - 470 MHz		
Number of Channels / Zones	128	3 / 128		
Channel Spacing				
Wide / Narrow	25 / 12.5 kHz			
Operating Voltage		OC ±20 %		
Battery Life (5-5-90 duty cycle, sa				
with KNB-45L (2000 mAh)		rs / Approx. 18 hours		
with KNB-53N (1400 mAh)	Approx. 9 hours / Approx. 12 hours			
with KNB-29N (1500 mAh)	Approx. 10 hours / Approx. 14 hours			
Operating Temperature Range	-30°C ~ +60°C ±2.5 ppm (-30°C ~ +60°C)			
Frequency Stability				
Antenna Impedance Channel Frequency Spread	38 MHz	50 Ω 70 MHz		
Dimensions (W x H x D), Projectio		70 1011 12		
Radio only		" (54 x 122 x 21 mm)		
with KNB-45I		2.13 " x 4.8 " x 1.33" (54 x 122 x 21 mm)		
with KNB-53N	2.13" x 4.8" x 1.33" (54 x 122 x 33.7mm)			
with KNB-29N	2.13" x 4.8" x 1.33" (54 x 122 x 33.7mm)			
Weight (net)				
Radio only	6.35 oz (180g)			
with KNB-45L	10.58 oz (300g)			
with KNB-53N	13.4 oz (380g)			
with KNB-29N	13.4 oz (380g)			
FCC ID				
Type 1	ALH413700	ALH413800		
Type 2	_	ALH413801		
FCC Compliance	Parts 22 / 74 / 90	Parts 22 / 74 / 90		

	TK-2312	TK-3312			
RECEIVER					
Sensitivity (12 dB SINAD)					
Wide / Narrow	0.25 μV / 0.28 μV				
Adjacent Channel Selectivity					
Wide / Narrow	70 dB / 60 dB				
Intermodulation Distortion Wide / Narrow	65.d	B / 60 dB			
	65 dB	60 dB			
Audio Distortion	Less	than 5 %			
Audio Output	500 mW / 8 Ω				
TRANSMITTER					
RF Output Power (High / Low)		5 W / 1 W			
Modulation Limiting	±5.0 kHz at 25 kHz				
	±2.5 kHz at 12.5 kHz				
Spurious Response	65 dB				
FM Noise (EIA)					
Wide / Narrow	45 dB / 40 dB				
Modulation Distortion	Less than 5 %				
Microphone Impedance	2 kΩ				
Modulation	1.01/053	UE / 4.41/.0EDE			
Wide / Narrow	16K0F3E / 11K0F3E				

Measurements made per TIA/EIA 603 and specifications shown are typical. Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

FleetSync® is a registered trademark of Kenwood Corporation.

# **Applicable MIL-STD & IP**

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
<b>International Protectio</b>	n Standard			
Dust & Water Protection	IP54			
	IP55			

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

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